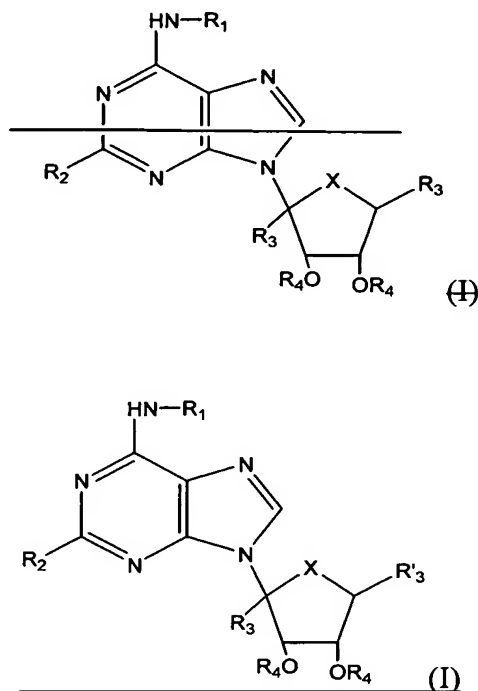


SPECIFICATION AMENDMENTS

Please replace paragraph [0009] with the following:

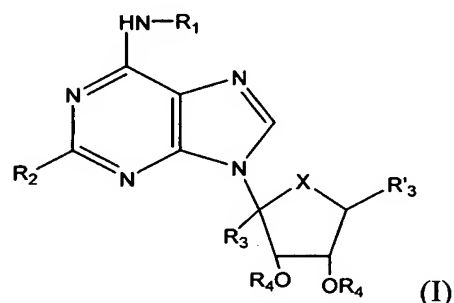
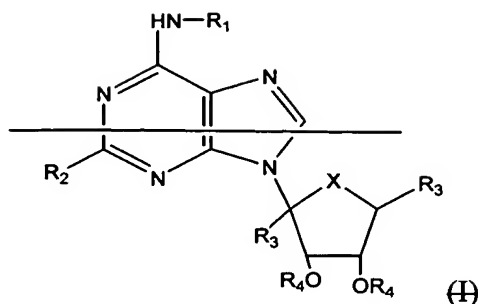
[0009] The present invention provides purine nucleoside compounds which are selective to A₃ adenosine receptors and are useful for the treatment of cancer and inflammatory diseases. The present invention provides compounds shown by the following general formula (I):



and isomers thereof, wherein X is sulfur or oxygen; R₁ is hydrogen, alkyl, benzyl, halobenzyl, or phenylalkyl; R₂ is hydrogen, halogen, alkoxy, alkenyl, alkynyl, alkylthio, or thio; R₃ and R₃' are hydrogen, hydroxyalkyl, alkoxycarbonyl, or alkylaminocarbonyl, whereas R₃ and R₃' do not have identical substituents simultaneously; and R₄ is hydrogen or alkyl.

Please replace paragraph [0010] with the following:

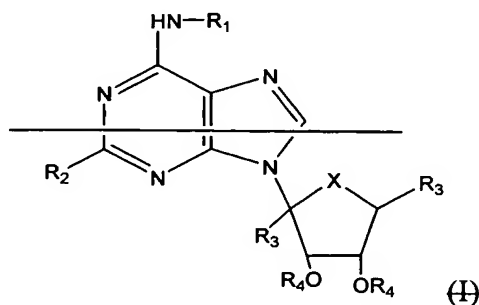
[0010] The foregoing need has been fulfilled to a great extent by the present invention that provides purine nucleosides selective to A₃ adenosine receptors. Thus, in an embodiment, the present invention provides a compound of formula (I):

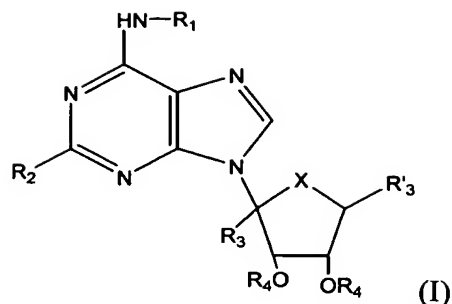


wherein X is sulfur or oxygen; R_1 is hydrogen, C_1 - C_5 alkyl, benzyl, halobenzyl, or phenyl C_1 - C_5 alkyl; R_2 is hydrogen, halogen, C_1 - C_5 alkoxy group, C_2 - C_6 alkenyl, C_2 - C_6 alkynyl, C_1 - C_5 alkylthio, or thio; R_3 and R_3' may be the same or different and are hydrogen, hydroxy C_1 - C_5 alkyl, C_1 - C_5 alkoxycarbonyl, or C_1 - C_5 alkylaminocarbonyl; R_4 is hydrogen or C_1 - C_5 alkyl; or a pharmaceutically acceptable salt, or isomer thereof. In an embodiment, R_3 and R_3' are not the same. In a preferred embodiment, X is sulfur.

Please replace the Abstract with the following:

Disclosed are purine nucleoside compounds that are selective to A_3 adenosine receptors and are useful for the treatment of cancer and inflammatory diseases. The compounds are shown by the following general formula (I), including isomers thereof:





wherein X is sulfur or oxygen; R_1 is hydrogen, alkyl, benzyl, halobenzyl, or phenylalkyl; R_2 is hydrogen, halogen, alkoxy, alkenyl, alkynyl, alkylthio, or thio; R_3 and R_3' are hydrogen, hydroxyalkyl, alkoxycarbonyl, or alkylaminocarbonyl, whereas R_3 and R_3' do not have identical substituents simultaneously; and R_4 is hydrogen or alkyl. Also disclosed are a pharmaceutical composition comprising a compound of formula (I), an isomer, or its pharmacologically acceptable salt as an active ingredient and a method for preventing or treating various diseases, state, or condition, including asthma, inflammation, cerebral ischemia, heart diseases, and cancer.